

Rodent

Footing

SIGN POST

CONNECTION DETAIL

Leveling nut

(galvanized)

15

c1

c2 20

c3 15

c4

1700

4750

4750

3500

8

5

(A) Additional length to bar a1 for 'L' = 0

72

89

37

11

Total 430 kg

See Detail

230

380

See Detail

Total

(B) Two in each additional 300 mm of 'L'.

490 mm + 'L'

Six End a2 - Shop bend

('L' less than or equal to 460 mm)

All bar dimensions shown are out to out.

SHOP BEND DETAILS

Details shown hereon are typical only and are not intended to depict any specific installations. Refer to detail project plans for sizes of footings and locations. Structural concrete, Class C, shall be used for the footing.

Excavation for footing shall be to neat lines and concrete shall be placed against the undisturbed material. All excavation for the footing shall be disposed of in the area adjacent to the footing and shaped to normal ground contour, unless otherwise directed by the Engineer. Maximum design bearing capacity is 14.6 megagrams per square meter.

The requirements perfooting are two anchor bolt assemblies including shims, nuts (5 per bolt) and washers. Refer to current Standard and Supplemental Specifications, Sections 4100 and 4187, for materials and galvanizing requirements.

A rodent guard shall be placed between the concrete footing and the base plate, see Materials I.M. 443.01.

Price bid for contract items shall include all labor and materials necessary to construct overhead sign footing as detailed hereon. The cost of furnishing and installing anchor bolt assemblies, conduits and rodent award are to be included in the unit price bid for structural concrete. Contract items for overhead sign footing construction are:

- Reinforcing Steel, kilograms
- 2. Structural Concrete (Miscellaneous), cubic meters
- 3. Excavation, cubic meters of class specified
- 1) Place 20 mm ground wire duct and two 50 mm access ducts within the anchor bolt-circle closest to the direction of the approaching traffic. Cap ends to exclude moisture unless sign lighting is part of the contract. Extend conduit ends 150 mm past edge of footing on side away from roadway. Location shall be on detail project plans. All ducts shall meet requirements for plastic conduit. Footings installed in the median of a divided roadway do not require access ducts.
- 2 For aluminum sign structure, place one (1) galvanized shim 3 x 480 x 480 mm at each bearing. Furnish two (2) per footing.
- (3) See Footing Tabulation.

CONCRETE PLACEMENT QUANTITIES FOR ONE FOOTING		
ITEM	'L' = 0	Each Additional 300 mm of 'L'
Wall	2.87	1.41
Footing	6.44	
Total	8.31 m ³	1.41 m ³

All dimensions given in millimeters unless noted.



OVERHEAD SIGN FOOTING DETAILS (TYPE 'B' FOOTING)

Iowa Department of Transportation

Highway Division